WHAT IS CLAIMED IS:

- 1 1. An antenna apparatus, comprising:
- 2 an antenna element, having directivity in a vertex direction;
- 3 an antenna case, containing the antenna element;
- 4 an antenna base, coupled to the antenna case, and attached
- 5 onto an installation face; and
- 6 an angle regulator, adjusting a relative angle between the
- 7 antenna case and the antenna base.
- 1 2. The antenna apparatus as set forth in claim 1, further comprising
- 2 a driving unit, driving the angle regulator so as to mechanically adjust
- 3 the relative angle between the antenna case and the antenna base.
- 1 3. The antenna apparatus as set forth in claim 2, further comprising
- 2 a detector, detecting a condition of radio-wave received by the antenna
- 3 element; and
- 4 a controller, controlling the driving unit based on the
- 5 condition of the radio-wave detected by the detector.
- 1 4. The antenna apparatus as set forth in claim 1, wherein the
- 2 angle regulator includes a plunger, a receiving portion having a
- 3 plurality of depressions for latching the plunger, and a resilient
- 4 member urging the plunger to the receiving portion.

- 1 5. The antenna apparatus as set forth in claim 1, wherein a hook
- 2 hole is formed in a base face of the antenna base.
- 1 6. The antenna apparatus as set forth in claim 5, wherein the
- 2 hook hole has a large-diameter hole portion and narrow slit portions
- 3 which formed on both sides of the large-diameter portion.
- 1 7. The antenna apparatus as set forth in claim 6, wherein the
- 2 hook hole has a plurality of hook holes; and
- 3 wherein the hook holes are formed in four places corresponding
- 4 to four corners of the base face which is attached onto the installation
- 5 face.
- 1 8. The antenna apparatus as set forth in claim 1, wherein a cable
- 2 hole is formed in a base face of the antenna base so that a cable is
- drawn out from the cable hole toward an upper side or a lower side
- 4 of the antenna base.
- 1 9. The antenna apparatus as set forth in claim 8, wherein a cable
- 2 drawing-out groove is formed in the base face of the antenna base so
- 3 as to extend to the upper side or the lower side of the antenna base;
- 4 and
- 5 wherein a cable latch portion is formed in the base face of
- 6 the antenna base so as to latch the cable which is drawn out along
- 7 the groove.

- 1 10. The antenna apparatus as set forth in claim 1 wherein the
- 2 installation face is formed on an interior of a vehicle.
- 1 11. The antenna apparatus as set forth in claim 1 wherein an elastic
- 2 slip stopper is provided on a base face of the antenna base.